

**DOCKET NO. 100051.10611**  
**PATENT**

**SERIAL NO. 10/695,578**  
**FILED:** October 27, 2003

**IN THE CLAIMS:**

Please amend claims 24, 25, 28, 29, 38, 39, 47, 50-52, 55 and 56, and cancel claims 26, 27, 36, 37, 49 and 54.

This listing of claims will replace all prior versions, and listings of the claims in the application.

**Listing of the claims**

**1-23. (Canceled)**

**24. (Currently Amended)** A method of treating an individual who has metastasized colorectal cancer comprising the step of administering to such an individual a therapeutically effective amount of ~~a vaccine~~ an expression vector comprising a nucleic acid molecule that encodes a protein comprising ~~at least one epitope~~ the extracellular domain of human guanylyl cyclase C protein.

**25. (Currently Amended)** A method of treating an individual who has been identified as being susceptible to metastasized colorectal cancer comprising the step of administering to such an individual a prophylactically effective amount of ~~a vaccine~~ an expression vector comprising a nucleic acid molecule that encodes a protein comprising ~~at least one epitope~~ the extracellular domain of human guanylyl cyclase C protein.

**26-27. (Canceled)**

**28. (Currently Amended)** The method of claim ~~27~~ 24 wherein the protein comprises the human guanylyl cyclase C protein.

**29. (Currently Amended)** The method of claim ~~27~~ 24 wherein the protein consists of the human guanylyl cyclase C protein.

30. **(Previously presented)** The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within an infectious agent.
31. **(Previously presented)** The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within a viral vector.
32. **(Previously presented)** The method of claim 31 wherein said viral vector is a recombinant vaccinia virus.
33. **(Previously presented)** The method of claim 31 wherein said viral vector is a recombinant adenovirus virus.
34. **(Previously presented)** The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within a bacterial cell.
35. **(Previously presented)** The method of claim 24 wherein the nucleic acid molecule that encodes said protein is a plasmid.
- 36-37. **(Canceled)**
38. **(Currently Amended)** The method of claim 37 25 wherein the protein comprises the human guanylyl cyclase C protein.
39. **(Currently Amended)** The method of claim 37 25 wherein the protein consists of the human guanylyl cyclase C protein.
40. **(Previously presented)** The method of claim 25 wherein the nucleic acid molecule that encodes said protein is within an infectious agent.

41. **(Previously presented)** The method of claim 25 wherein the nucleic acid molecule that encodes said protein is within a viral vector.
42. **(Previously presented)** The method of claim 41 wherein said viral vector is a recombinant vaccinia virus.
43. **(Previously presented)** The method of claim 41 wherein said viral vector is a recombinant adenovirus virus.
44. **(Previously presented)** The method of claim 25 wherein the nucleic acid molecule that encodes said protein is within a bacterial cell.
45. **(Previously presented)** The method of claim 25 wherein the nucleic acid molecule that encodes said protein is a plasmid.
46. **(Previously presented)** The method of claim 25 wherein the individual has been previously been diagnosed with colorectal cancer.
47. **(Currently Amended)** The method of claim 27 24 wherein said protein comprises SEQ ID NO:2 or a fragment thereof comprising ~~at least one epitope of~~ amino acids 24-454 of SEQ ID NO:2.
48. **(Previously presented)** The method of claim 27 24 wherein said protein comprises SEQ ID NO:2.
49. **(Canceled)**

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50.     **(Currently Amended)**     The method of claim 49 47 wherein said protein comprises amino acids 24-454 of SEQ ID NO:2.

51.     **(Currently Amended)** The method of claim 49 47 wherein said protein comprises amino acids 24-475 of SEQ ID NO:2.

52.     **(Currently Amended)**     The method of claim 37 25 wherein said protein comprises SEQ ID NO:2 or a fragment thereof comprising ~~at least one epitope of~~ amino acids 24-454 of SEQ ID NO:2.

53.     **(Previously presented)**     The method of claim 52 wherein said protein comprises SEQ ID NO:2.

54.     **(Canceled)**

55.     **(Currently Amended)**     The method of claim 54 52 wherein said protein comprises amino acids 24-454 of SEQ ID NO:2.

56.     **(Currently Amended)**     The method of claim 54 52 wherein said protein comprises amino acids 24-475 of SEQ ID NO:2.